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18/B AF/NE. E Williams 7-10-02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Yuan-Ping Pang
Serial No. : 09/595,650
Filed : June 16, 2000
Title : MOLECULAR MODELING FOR METALLOPROTEINS

Art Unit : 1631
Examiner : M. Sheinberg

BOX AF
Commissioner for Patents
Washington, D.C. 20231

RESPONSE AND AMENDMENT

This communication is responsive to the Office Action mailed April 19, 2002 (hereinafter "OA"). Applicant respectfully requests reconsideration of the Examiner's rejection of claims 37-54 and withdrawal of claims 55-72 in view of the following amendments and remarks.

DO NOT ENTER MRS 7/17/02

AMENDMENT

Please amend claims 37 and 55 as follows:

37. (Amended twice) A machine having a memory that contains data representing a simulated metal ion generated by a molecular dynamics simulation, wherein said simulated metal ion comprises center atom having a van der Waals radius greater than zero covalently linked to one or more dummy atoms having a van der Waals radius of about zero, wherein the overall charge of said metal ion is evenly distributed among said dummy atoms and wherein said center atom has a charge of zero.

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

June 18, 2002
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Kristin Palmieri
Signature

Kristin Palmieri
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55. (Amended once) A computer readable medium having computer executable instructions stored thereon, wherein the execution of said instructions simulates a metal ion, said metal ion comprising a center atom having a van der Waals radius greater than zero covalently linked to one or more dummy atoms having a van der Waals radius of about zero, wherein the overall charge of said metal ion is evenly distributed among said dummy atoms and wherein said center atom has a charge of zero.